



01-23-09 - Update Programming, DTC P054A stored in Engine/Motor Control Module -J623- Release date: 10/18/2023

Condition

Applicable Vehicles					
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Atlas	2018-2023	3.6L (CDVC)	All	All	All
Atlas Cross Sport	2020-2023	3.6L (CDVC)	All	All	All

Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2071325/1	10/18/2023	01-23-09	Original publication.

Vehicles must have one of the following complaints:

- Customer states vehicle requires a manual restart either after coming to a stop or the Start/Stop system has activated.
- Customer states MIL on with fault P054A stored in the ECM.

One or more of the following fault codes may be stored in the Engine Control Module (ECM) Fault Memory:

DTC	Description
P054A	Cold Start "B" Camshaft Position Timing Over-Advanced



Note:

DO NOT diagnose or replace components related to the above complaints **before** performing the update function as explained in this bulletin.



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Technical Background

Updated programming of the Engine Control Module (ECM) software is based on most recent engineering experiences and makes this knowledge available for the monitoring strategies.

Production Solution

No production solution available as the 3.6L is out of production.

Service

Update-Programming Procedure:

Critical Warning: : The Midtronics battery charger **must** be connected to the vehicle battery for the duration of the programming, to ensure the battery state of charge remains above 12.5 volts during the update process. If the battery drops below 12.5 volts, the programming could fail which may result in damage to the control module. Control modules damaged by inadequate voltage will not be covered under the warranty policy. The technician should verify the vehicle voltage prior to starting the update process, and should monitor the voltage for the duration of the update.

The procedure may cancel itself if the hazard warning lights are not switched ON. The hazard warning lights prevent the system from switching to bus sleep mode during the update.

ODIS-Service tester should be updated to the latest GFF technical version 11.0.0 or higher and SW version 2.47.0 or higher.

If software updates or flash campaign/actions are performed on a vehicle, a charger with at least 70A charging current MUST be used in order to avoid problems during software updates and flash campaign/actions.



WARNING:

Radiator Fan(s) may cycle ON high speed during the Update Process! There is a risk that personal injury may result if contact is made with spinning fan blades.

Keep hands and all objects away from Radiator Fan(s) during Update Process!



Note:

Prior to launching the ODIS Service diagnostic applications and starting control module update process, confirm tester screen saver and power settings in accordance with Diagnostic Device Hardware & Windows® - VHW-20-02 Change Power Options After Windows®10 Upgrade. Failure to do so may result in the tester entering power save mode during data transfer, and subsequent control module failure.



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When using a VAS 6150/X or 6160/X tester in conjunction with a VAS 6154 wireless transmitter head for a flash procedure, connect a USB cable between the transmitter head and the tester. Failure to do so may lead to errors during the flash procedure.

VAS tools must only be used with their power adapters plugged in. Under no circumstances should they be used on battery power alone during the programming procedure.



Tip:

To Update-Programming using Software Version Management (SVM), review and follow instructions in Technical Bulletin Instance 2014603 "Software Version Management".

The SVM process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim or action is carried out that is not explicitly stated in the Technical Bulletin.

- Update the Engine/Motor Control Module -**J623**- using the SVM Unit code as listed in the table below:

Model	Engine	Old Software Part No.	Old Software Version	New Software Part No.	New Software Version (or higher)	SVM Unit Code
Atlas	3.6L (CDVC)	03H906026E	4744 6024 6695 9970 9971 9972	03H906026E	9973	4CC1
Atlas	3.6L (CDVC)	03H906026F	4745 6025 6696 9970 9971 9972	03H906026F	9973	4CC1
Atlas	3.6L (CDVC)	03H906026J	4748 6026 6697 9970 9971 9972	03H906026J	9973	4CC1
Atlas	3.6L (CDVC)	03H906026R	6692 9970 9971	03H906026R	9973	4CC1



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			9972			
Atlas	3.6L (CDVC)	03H906026S	6693 9970 9971 9972	03H906026S	9973	4CC1
Atlas	3.6L (CDVC)	03H906026AA	6694 9970 9971 9972	03H906026AA	9973	4CC1
Atlas	3.6L (CDVC)	03H906026AH	9970 9971 9972 9973 9975	03H906026AH	9976	4CC1
Atlas	3.6L (CDVC)	03H906026AG	9970 9971 9972 9973 9975	03H906026AG	9976	4CC1
Atlas	3.6L (CDVC)	03H906026AF	9970 9971 9972 9973 9975	03H906026AF	9976	4CC1
Atlas	3.6L (CDVC)	03H906026AJ	0454 0638 1017 1689 2666	03H906026AJ	3172	4CC1
Atlas	3.6L (CDVC)	03H906026AT	1922 2665	03H906026AT	3171	4CC1
Atlas	3.6L (CDVC)	03H906026BC	2664	03H906026BC	3170	4CC1
Atlas Cross Sport	3.6 (CDVC)	03H906026AG	9970 9971 9972 9973 9975	03H906026AG	9976	4CC1
Atlas Cross Sport	3.6 (CDVC)	03H906026AJ	1017 1689 2666	03H906026AJ	3172	4CC1



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Atlas Cross Sport	3.6 (CDVC)	03H906026AT	1922 2665	03H906026AT	3171	4CC1
Atlas Cross Sport	3.6 (CDVC)	03H906026BC	2664	03H906026BC	3170	4CC1



Tip:

The procedure can be found in GFF under Functions/ Component Selection, Software Version Management, Adapting Software.

Ensure attached ECM/TCM Tuning Form has been completed and signed by customer as required in SVM Technical Bulletin Instance 2014603.



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Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾					
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Atlas	2018-2023	3.6 (CDVC)	All	All	All
Atlas Cross Sport	2020-2023	3.6 (CDVC)	All	All	All
SAGA Coding					
Claim Type:	Use applicable Claim Type ¹⁾				
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
2470	0039	--		Use applicable when indicated in Elsa (L/R)	
Parts Manufacturer	Atlas / Atlas Cross Sport			3ME ²⁾	
Labor Operation ³⁾ : Charge Battery			27068950 = See Elsa for latest time units		
Labor Operation ³⁾ : Update Programming ECM Control Module			24705599 = 50 TU		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = Actual GFF print out			NO	
Road Test	01210004 = 10 TU			YES	
Technical Diagnosis	01320000 = 00 TU max.			NO	
Claim Comment: Input "As per Technical Bulletin 2071325" in comment section of Warranty Claim.					
¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only.					
²⁾ Code per warranty vendor code policy.					



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- 3) Labor Time Units (TUs) are subject to change with ELSA updates.
- 4) Documentation required per Warranty Policies and Procedures Manual.

Required Parts and Tools

No Special Parts required.

Tool Description	Tool No:
Midtronics Battery Tester/Charger	GRX3000VAS or MTRMSP0702 battery maintainer/charger
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X and ODIS Service with current online updates

Additional Information

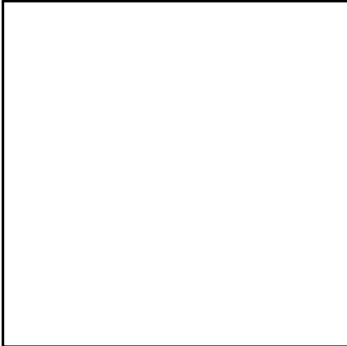
All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.



**OWNER INFORMATION ABOUT CONTROL MODULE TUNING*
ACKNOWLEDGEMENT AND AUTHORIZATION FOR
REPROGRAMMING (REFLASHING) OF CONTROL MODULE(S)**

*) "TUNING" is described as the addition of or modification of any component which causes a Volkswagen vehicle to perform outside the normal parameters and specifications approved by Volkswagen Group of America / Volkswagen Group Canada.

Date: _____
 Dealer Number: _____
 Vehicle Identification Number: _____
 Repair Order Number: _____



Dealer stamp

I _____, owner or driver of the above identified Volkswagen, confirm:

- "Tuning" as described above (especially power increasing modifications) has NOT been performed on my vehicle.
- "Tuning" as described above has been performed on my vehicle and the following components were modified or installed:

 TUNING was performed by (Please provide Company name and telephone number, if you wish us to contact them):

I understand that if my Control Module is determined to have been tuned, any damage caused by the tuning of the Control Module (including adverse emissions consequences) will not be covered by VWGoA / VGC warranties.

I am permitting an authorized Volkswagen Dealer to reflash (update) my Control Module, and by doing so, I understand that this process will automatically overwrite (destroy) and permanently delete any tuning program that was previously installed on the Control Module of my Volkswagen vehicle.

By signing below, I fully acknowledge and understand that the tuning program will not be restored and VWGoA / VGC, will not be liable in any way for the loss of tuning data.

Signature of Customer